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FactoryTalk® ViewPoint

QUICK START GUIDE

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1 Getting started with FactoryTalk ViewPoint

This chapter describes:

- what a FactoryTalk® ViewPoint web application is.
- FactoryTalk ViewPoint system requirements.
- how to install the FactoryTalk ViewPoint software.
- how to upgrade to FactoryTalk ViewPoint 8.00.
- how to set up web client computers.

About FactoryTalk ViewPoint web applications

FactoryTalk® ViewPoint is an add-on to FactoryTalk View that provides for a fully scalable, fully animated, read-and-write view of existing Site Edition (SE) and Machine Edition (ME) web applications from a web browser.

A web application consists of graphic displays selected from the FactoryTalk View application, converted for viewing in a web browser, and then published to a FactoryTalk ViewPoint Server (also called the web server).

- For Site Edition applications, the FactoryTalk ViewPoint Server runs on a desktop or server computer.
- For Machine Edition applications, a PanelView™ Plus or PanelView™ Plus Pro operator terminal functions as the server.

To learn more about differences between Site Edition and Machine Edition web applications, see the next chapters in this manual.

What to expect when you open a web application

To open a published web application, all you have to do is open a browser and enter the address of the computer or terminal running the web server that hosts the application, such as http://*computer name*/FTVP.

When you enter a web address in the browser, do not exceed the maximum length of 2048 characters. Rework the screen so that the web address is less than 2048 characters. If the web address exceeds the maximum 2048 characters allowed, the following error message appears, "Unable to open the requested display. The web address exceeds the maximum length of 2048 characters".
Note: Different browsers have different length limits. If you get this error message because you are using large numbers of parameters, it is recommended that you use a parameter file instead.

The initial display that you specified for the web application opens first. From there, you can navigate the entire application using buttons and touch animation created in FactoryTalk View Studio. Touch animation is not supported in FactoryTalk ViewPoint for Machine Edition.

If you are using FactoryTalk ViewPoint Site Edition, you can view multiple displays using a startup macro. FactoryTalk ViewPoint Machine Edition allows a single display on startup. Macros are not supported in FactoryTalk ViewPoint for Machine Edition.

Displays in a FactoryTalk ViewPoint application can be secured. In runtime, an authenticated user who is a member of a security group, is allowed or denied access to secured displays. There are two types of access: Write and View. Graphic objects in the displays are fully animated; and depending on your security permissions you can use the objects to write to tags. You cannot start and stop HMI components. For example, a numeric input object with a tag connection will display the tag's current value, but will not permit downloads.

As in FactoryTalk View, objects with tag or expression connections will show in outline form if the connection is broken.

To learn more about FactoryTalk View features that are not supported in FactoryTalk ViewPoint applications, see the FactoryTalk ViewPoint Help.

FactoryTalk ViewPoint system requirements

This section describes system requirements for:

- FactoryTalk ViewPoint Server and FactoryTalk ViewPoint Administration for Site Edition web applications.
- FactoryTalk ViewPoint Administration for Machine Edition web applications.
- FactoryTalk ViewPoint Clients.

FactoryTalk ViewPoint requires cookie support.
Ensure that the computer name does not include any invalid DNS characters such as underscores.

Requirements for Site Edition

SUPPORTED OPERATING SYSTEMS

Before installing FactoryTalk ViewPoint Server or FactoryTalk ViewPoint Administration, the setup program checks whether the computer is running one of the following Microsoft operating systems. If these operating systems are not detected, you will receive a prompt to update the computer.

Operating system	Notes
Windows 8.1 Enterprise (32-bit or 64-bit)	
Windows 8.1 Professional (32-bit or 64-bit)	
Windows 8 Enterprise (32-bit or 64-bit)	
Windows 8 Professional (32-bit or 64-bit)	
Windows 7 Professional (32-bit or 64-bit)	
Windows 7 Professional SP 1 (32-bit or 64-bit)	

Operating system	Notes
Windows 7 Enterprise SP1 (64-bit)	
Windows 7 Ultimate SP1 (64-bit)	
Windows Vista Business SP 2 (32-bit)	
Windows Server 2012 R2 Standard (64-bit)	
Windows Server 2012 Standard (64-bit)	
Windows Server 2008 Standard SP 2 (32-bit or 64-bit)	A recommended operating system for FactoryTalk ViewPoint Servers running network web applications in a distributed system.
Windows Server 2008 R2 Standard (64-bit)	A recommended operating system for FactoryTalk ViewPoint Servers running network web applications in a distributed system.
Windows Server 2008 R2 Standard SP 1 (64-bit)	A recommended operating system for FactoryTalk ViewPoint Servers running network web applications in a distributed system.
Windows Server 2008 R2 Enterprise SP 1 (64-bit)	A recommended operating system for FactoryTalk ViewPoint Servers running network web applications in a distributed system.
Windows Server 2003 R2 Standard SP 2 (32-bit or 64-bit)	A recommended operating system for FactoryTalk ViewPoint Servers running network web applications in a distributed system.
Windows XP Professional SP 3 (32-bit)	Suitable only for web servers that will support no more than 10 client connections.

***Note**: The Static Content option must be enabled while configuring Internet Information Services (IIS) for Windows 7 before FactoryTalk ViewPoint can be installed.*

If you plan to run a FactoryTalk ViewPoint Server on a Windows XP Professional, Windows Vista Business, or Windows 7 Professional computer in a distributed system, do not install the following FactoryTalk server components on the same computer: HMI server, data server, or alarm server.

PREREQUISITE SOFTWARE

If necessary, the FactoryTalk ViewPoint setup program installs the following prerequisites automatically:

- Microsoft .NET Framework 3.5 with Service Pack 1

  Note: It might take several minutes to install .NET 3.5 with Service Pack 1 on some computers. If you use Windows 8.1, Windows 8, Windows Server 2012 R2, or Windows Server 2012, you need to manually install it. Follow the on-screen instructions to continue the installation.

- Microsoft Internet Information Services (IIS) (For Windows XP and Windows Server 2003, IIS must be installed manually.)
- FactoryTalk Activation 3.62.01
- FactoryTalk Services Platform 2.70
- FactoryTalk Alarms and Events 2.70
- FactoryTalk View Site Edition Client 8.00
- RSLinx Enterprise 5.70.00

If you have Windows XP or Windows Server 2003 and Microsoft Internet Information Services (IIS) is not installed, you will receive a message to install the software manually before installing FactoryTalk ViewPoint. We recommend restarting the computer after installing IIS. To learn more about installing Microsoft Internet Information Services, see the FactoryTalk ViewPoint Help.

Use the Windows Add or Remove Programs tool to check supporting software versions on the FactoryTalk ViewPoint Server computer.

The computer must support a minimum screen resolution of 1024 x 768.

REMOVING INCOMPATIBLE SOFTWARE PRODUCTS OR VERSIONS

Incompatible software is automatically removed during the FactoryTalk ViewPoint Site Edition installation. As the installation continues, required software is automatically installed.

Requirements for Machine Edition web applications

This section contains requirements for:

- FactoryTalk ViewPoint ME Administration (installed on the FactoryTalk View Studio computer)
- PanelView Plus or PanelView Plus 6 terminal

FACTORYTALK VIEWPOINT ADMINISTRATION ME REQUIREMENTS

Supported operating systems

- Windows 8.1 Enterprise (32-bit or 64-bit)
- Windows 8.1 Professional (32-bit or 64-bit)
- Windows 8 Enterprise (32-bit or 64-bit)
- Windows 8 Professional (32-bit or 64-bit)
- Windows 7 Professional with or without Service Pack 1 (32-bit or 64-bit)
- Windows 7 Enterprise with Service Pack 1 (64-bit)
- Windows 7 Ultimate with Service Pack 1 (64-bit)
- Windows Vista Business with Service Pack 2 (32-bit)
- Windows Server 2012 R2 Standard (64-bit)
- Windows Server 2012 Standard (64-bit)
- Windows Server 2008 R2 Standard Edition with or without Service Pack 1 (64-bit)
- Windows Server 2008 Standard Edition with Service Pack 2 (32-bit or 64-bit)
- Windows Server 2008 R2 Enterprise with Service Pack 1 (64-bit)
- Windows Server 2003 R2 Standard Edition with Service Pack 2 (32-Bit or 64-bit)

- Windows XP Professional with Service Pack 3 (32-bit)

Prerequisite software

FactoryTalk ViewPoint Administration Machine Edition must be installed on a computer with FactoryTalk View Studio 8.00.

If necessary, the FactoryTalk ViewPoint setup program installs the following prerequisites automatically:

- Microsoft .NET Framework 3.5 with Service Pack 1

  Note: If you use Windows 8.1, Windows 8, Windows Server 2012 R2, or Windows Server 2012, you need to manually install it. Follow the on-screen instructions to continue the installation.

- FactoryTalk Activation Server 3.62.01
- FactoryTalk Services Platform 2.70
- RSLinx Enterprise 5.70

Removing incompatible software products or versions

Incompatible software is automatically removed during the FactoryTalk ViewPoint Machine Edition installation. As the installation continues, required software is automatically installed. FactoryTalk View Studio is an exception and must be manually uninstalled and reinstalled.

PANELVIEW PLUS OR PANELVIEW PLUS 6 REQUIREMENTS

Supported operating system

Windows CE 6

Supported operator terminals

- PanelView Plus (700-1500 with 128 MB RAM)
- PanelView Plus 6

***Note**: PanelView Plus 6 terminals ship with FactoryTalk ViewPoint Machine Edition installed.*

FactoryTalk ViewPoint Machine Edition can generate FactoryTalk ViewPoint content for previous versions of FactoryTalk ViewPoint Machine Edition. During the runtime application (.MER file) creation process, the published FactoryTalk ViewPoint content is converted to the version selected and included with the MER.

In addition, the FactoryTalk ViewPoint server (which is a part of the operator terminal firmware) is also able to process and serve earlier versions of FactoryTalk ViewPoint content to the client (browser). This scenario could occur when a MER file created with FactoryTalk View ME 5.10 contains FactoryTalk ViewPoint 1.2 content and is loaded and run on a PanelView Plus 6 operator terminal.

COMPATIBILITY MATRIX FOR FACTORYTALK VIEWPOINT

Compatibility for FactoryTalk ViewPoint

Software/ Application Files			Operator Terminal					
			PanelView Plus or PanelView Plus CE	PanelView Plus 6				
FactoryTalk View Studio version	Runtime Application (MER) version	ViewPoint Content (included in MER)	ViewPoint 1.1 (firmware 5.10.01 or later)	ViewPoint 1.2 (firmware update packages v6.00.00 or later)	ViewPoint 2.0 (firmware update packages v6.0-20110425 or later)*	ViewPoint 2.10 (firmware update packages v6.10-2011*mmdd* or later)	ViewPoint 2.6 (firmware update packages v7.0-2012*mmdd* or later)	ViewPoint 8.0 (firmware update packages v8.0-2014*mmdd* or later)
5.10	5.10	1.10	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
6.00	5.10	1.20	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
6.00	6.00	1.20	*Incompatible*	Compatible	Compatible	Compatible	Compatible	Compatible
6.00	6.00	2.00	*Incompatible*	*Incompatible*	Compatible	Compatible	Compatible	Compatible
6.10	5.10	1.20	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
6.10	6.00	1.20	*Incompatible*	Compatible	Compatible	Compatible	Compatible	Compatible
6.10	6.00	2.10	*Incompatible*	*Incompatible*	Compatible	Compatible	Compatible	Compatible
6.10	6.10	2.10	*Incompatible*	*Incompatible*	*Incompatible*	Compatible	Compatible	Compatible
7.00	5.10	1.20	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
7.00	6.00	1.20	*Incompatible*	Compatible	Compatible	Compatible	Compatible	Compatible
7.00	6.00	2.10	*Incompatible*	*Incompatible*	Compatible	Compatible	Compatible	Compatible
7.00	6.10	2.10	*Incompatible*	*Incompatible*	*Incompatible*	Compatible	Compatible	Compatible
7.00	7.00	2.60	*Incompatible*	*Incompatible*	*Incompatible*	*Incompatible*	Compatible	Compatible
8.00	5.10	1.20	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
8.00	6.00	1.20	*Incompatible*	Compatible	Compatible	Compatible	Compatible	Compatible

Compatibility for FactoryTalk ViewPoint

Software/ Application Files			Operator Terminal					
			PanelView Plus or PanelView Plus CE	PanelView Plus 6				
FactoryTalk View Studio version	Runtime Application (MER) version	ViewPoint Content (included in MER)	ViewPoint 1.1 (firmware 5.10.01 or later)	ViewPoint 1.2 (firmware update packages v6.00.00 or later)	ViewPoint 2.0 (firmware update packages v6.0-20110425 or later)*	ViewPoint 2.10 (firmware update packages v6.10-2011*mmdd* or later)	ViewPoint 2.6 (firmware update packages v7.0-2012*mmdd* or later)	ViewPoint 8.0 (firmware update packages v8.0-2014*mmdd* or later)
8.00	6.00	2.10	*Incompatible*	*Incompatible*	Compatible	Compatible	Compatible	Compatible
8.00	6.10	2.10	*Incompatible*	*Incompatible*	*Incompatible*	Compatible	Compatible	Compatible
8.00	7.00	2.60	*Incompatible*	*Incompatible*	*Incompatible*	*Incompatible*	Compatible	Compatible
8.00	8.00	8.00	*Incompatible*	*Incompatible*	*Incompatible*	*Incompatible*	*Incompatible*	Compatible

***** Beginning with this release, version numbers reflect the release date. The new version number scheme is PanelView Plus 6 Firmware Upgrade Package 6.0-YYYYMMDD where YYYYMMDD represents the release date.

FactoryTalk ViewPoint web clients

The following requirements apply to computers hosting web browsers that will connect to FactoryTalk ViewPoint applications or to FactoryTalk ViewPoint Administration.

SUPPORTED WEB BROWSERS

- Microsoft Internet Explorer 6.0 to 11.0

  Note: In Windows 8 or Windows 8.1, Modern IE browsers are not supported. Only the full versions of desktop IE are supported.

- Mozilla Firefox 13.0 to 30.0
- Google Chrome 19.0 to 35.0
- Apple Safari 5.1.5 to 5.1.7

Note: To use FactoryTalk ViewPoint client with Safari 5.1.7, we recommend that you install Microsoft Silverlight 4.0. Safari 5.1.7 does not work well with the latest version of Silverlight such as 5.1.

PREREQUISITE SOFTWARE

- Microsoft® Silverlight 4

The first time a Web browser connects to a FactoryTalk ViewPoint Server or operator terminal, you will receive a message to install Microsoft Silverlight 4 if the software is not already installed. To learn how to install Silverlight 4, see page 37.

Installing FactoryTalk ViewPoint

To install FactoryTalk ViewPoint and supporting software, run the setup program from the FactoryTalk ViewPoint CD. If you are already using FactoryTalk ViewPoint software, see “Upgrading FactoryTalk ViewPoint software” on page 15.

- If you are installing the FactoryTalk ViewPoint Machine Edition software, be sure you have FactoryTalk View Studio 8.00 installed.
- The PanelView Plus terminals can be upgraded with new firmware compatible with FactoryTalk View Machine Edition 8.00.

The user installing FactoryTalk ViewPoint must have administrative rights in Windows. If you have problems, contact your System Administrator or try logging on as a different user.

To install FactoryTalk ViewPoint:

1. Close all open Windows programs.
2. Place the FactoryTalk ViewPoint CD in the computer’s CD drive.

   The CD should start running automatically. If not, run **D:\setup.exe,** where D is the drive containing the CD.
3. Under **Select software products to install**, ensure that either **FactoryTalk ViewPoint SE** or **FactoryTalk ViewPoint ME** is selected, and then click **Next**.
   - **FactoryTalk ViewPoint for Site Edition** - install this version to create web applications for FactoryTalk View SE. For network applications, install the software on one of the computers participating in the FactoryTalk Network

Directory. For local applications, install the software on the computer hosting the local application.

- **FactoryTalk ViewPoint for Machine Edition** - install this version to create web applications for FactoryTalk View ME. This software must be installed on a computer running FactoryTalk View Studio.

4. (Windows XP and Windows 2003 without IIS only) If necessary, the setup program presents a message about missing prerequisites to install manually. For instructions, click the Help links in the setup wizard. If this list includes **Supported Web Server**, you must install Microsoft Information Services (IIS) manually. See “Installing Internet Information Services (IIS)” on page 13.
5. To accept the License Agreement, click **Accept all**.
6. Accept the default product location, or change the location, and then click **Next**.
7. To begin installing FactoryTalk ViewPoint and any listed prerequisites, click **Install**.
8. Click **Finish** after the software finishes installing.
9. If you see a message asking to restart the computer, click **Yes**.

Installing Internet Information Services (IIS)

Microsoft Internet Information Services (IIS) is required for FactoryTalk ViewPoint Site Edition. IIS is installed automatically for all supported operating systems except Windows XP and Windows Server 2003.

TO INSTALL IIS FOR WINDOWS SERVER 2003:

1. Close all open Window programs.
2. Place your Windows CD in the computer's CD drive.
3. Open the Windows Control Panel, and then double-click **Add or Remove Programs**.
4. On the left side of the of the Add or Remove Programs window, click **Add/ Remove Windows Components**.
5. After the Windows Components Wizard starts, in the Components list, select **Application Server,** and then click **Details**.
6. In the Application Server dialog box, select **Internet Information Services (IIS)**, and then click **Details**.
7. In the Internet Information Services (IIS) dialog box, select the check box, **World Wide Web Service**. The Internet Information Services Manager and Common Files check boxes are also selected.
8. Select **World Wide Web Service**, and then click **Details**.
9. In the World Wide Web Service dialog box, the World Wide Web Service check box is already selected. Select the check boxes, **Active Server Pages** and **WebDAV Publishing**.
10. Click **OK** until you return to the Windows Components Wizard, and then click **Next**.
11. To finish installing IIS, follow the instructions in the Wizard.

TO INSTALL IIS FOR WINDOWS XP:

1. Close all open Window programs.
2. Place your Windows CD in the computer's CD drive.
3. Open the Windows Control Panel, and then double-click **Add/Remove Programs**.

4. On the left side of the of the Add/Remove Programs window, click **Add/Remove Windows Components**.
5. After the Windows Components Wizard starts, select the check box **Internet Information Services (IIS)**, and then click **Details**.
6. In the Internet Information Services (IIS) dialog box, select the check boxes **Common Files**, **Internet Information Services Snap-In**, and **World Wide Web Service**.
7. Click **OK**, and then click **Next**.
8. To finish installing IIS, follow the instructions in the Wizard.

Installing FactoryTalk ViewPoint Site Edition software updates

The same versions of FactoryTalk software updates (also called patches) must be installed on all computers participating in a distributed, FactoryTalk control system.

Even if FactoryTalk ViewPoint Site Edition is the only FactoryTalk software installed on a computer, you must also install any FactoryTalk updates installed on other computers in the system. To learn how to install software updates, see the Rockwell Automation Knowledgebase.

Installing PanelView Plus firmware

If you are installing FactoryTalk ViewPoint Machine Edition, you will need to update the PanelView Plus firmware using the Firmware Upgrade Wizard. The firmware containing FactoryTalk ViewPoint includes “with ViewPoint” in the name of the Firmware Upgrade Package. To install PanelView Plus firmware, see *PanelView Plus Terminals User Manual*, Chapter 8, “Upgrade Firmware.”

Upgrading FactoryTalk ViewPoint software

If you already have a version of FactoryTalk ViewPoint installed, to upgrade the software and to ensure that an existing web application is compatible with the new version, complete these tasks:

- Upgrade the FactoryTalk ViewPoint software.
- Upgrade Microsoft Silverlight software.
- Upgrade the existing web application by republishing displays.

Upgrade FactoryTalk ViewPoint software

1. Close all open Windows programs.
2. Place the FactoryTalk ViewPoint CD in the computer's CD drive.

   The CD should start running automatically. If not, run **D:\setup.exe**, where D is the drive containing the CD.

   If necessary, the setup program presents a message about missing prerequisites that you need to install manually. For instructions, click the Help links in the setup wizard.
3. Under **Select software products to install**, ensure that **FactoryTalk ViewPoint SE** or **FactoryTalk ViewPoint ME** is selected, and then click **Next**.
4. Confirm that you are upgrading your version of FactoryTalk ViewPoint when the dialog box is displayed by clicking **Next**. The upgrade installation automatically saves all configuration settings.
5. Accept the Software License Agreement.
6. Accept the default product location, or change the location, and then click **Next**.
7. To begin installing FactoryTalk ViewPoint and any listed prerequisites, click **Install**.
8. After the software finishes installing, click **Finish**.

Upgrade Microsoft Silverlight software

FactoryTalk ViewPoint requires Microsoft Silverlight 4.0. If the software is not already installed, you will receive a message the first time you run FactoryTalk ViewPoint Administrator.

1. Start FactoryTalk ViewPoint Administrator from **Start > All Programs > Rockwell Software > FactoryTalk ViewPoint > FactoryTalk ViewPoint Administration** or from the desktop shortcut.
2. If necessary, the web browser connecting to FactoryTalk Viewpoint Administration presents a message to install Microsoft Silverlight. To begin, click the **Click to Install** button.
3. In the File Download - Security Warning dialog box, click **Run**.
4. After Silverlight 4.0.exe starts installing, in the Internet Explorer - Security Warning dialog box, click **Run**.
5. In the Install Silverlight graphic, click **Install Now**.
6. After the software finishes installing, if the Enable Microsoft Update graphic is presented, click **Next**, and then click **Close**. Otherwise, simply click **Close**.
7. Restart the web browser.

Upgrade existing FactoryTalk ViewPoint SE web applications by republishing displays

1. Connect to FactoryTalk ViewPoint Administration. For more information, see “Connecting to FactoryTalk ViewPoint Administration” on page 24
2. In the Home page, click **Publish Displays to Web**.
3. Select the FactoryTalk View application type. For more details on the application types see page 26.
4. Select the FactoryTalk View application that corresponds with the existing web application, and then click **Select displays**.

   All the displays that make up the web application are selected in the list of displays.
5. Make sure that the check box **Re-publish all selected displays** is selected, and then click **Publish displays**.

Upgrade existing FactoryTalk ViewPoint ME web applications by republishing displays

1. Open FactoryTalk ViewPoint Administration. For more information, see “Creating a new Machine Edition web application” on page 34.
2. In the Home page, click **Publish Displays to Web**.
3. All the displays that make up the web application are selected in the list of displays.
4. Make sure that the check box **Re-publish all selected displays** is selected, and then click **Publish displays**.

Setting up web client computers

If you are using Internet Explorer to connect to FactoryTalk ViewPoint Administration or to open published web applications, ensure that Internet Explorer is set up to:

- recognize FactoryTalk ViewPoint as a trusted site.
- check for new versions of stored pages with every visit to a page.
- work online.

To learn more about the effect of Internet Explorer security settings on FactoryTalk ViewPoint, see Answer ID 58985 in the Rockwell Automation Knowledgebase.

Adding FactoryTalk ViewPoint to the list of trusted sites

To add FactoryTalk ViewPoint to the list of trusted sites:

1. In Internet Explorer, on the **Tools** menu, click **Internet Options**.
2. In the **Security** tab, select **Trusted sites**, and then click **Sites**.
3. In the Trusted sites dialog box, clear the check box, **Require server verification (https:) for all sites in this zone**.
4. Type the following web address, and then click **Add**.

   http://*ComputerName*/**FTVP**

where *ComputerName* is the name or IP address of the FactoryTalk ViewPoint Server computer.

Checking for new versions with every visit to a page

To set up Internet Explorer to check for new versions of stored pages with every visit:

1. In Internet Explorer, on the Tools menu, click **Internet Options**.
2. In Internet Explorer 6.0, click **Settings** in the General tab, under Temporary Internet files.
   In Internet Explorer 7.0 or higher, click **Settings** in the General tab, under Browsing history.
3. Under Check for newer versions of stored pages:
   - In Internet Explorer 6.0, click **Every visit to page**.
   - In Internet Explorer 7.0 or higher, click **Every time I visit the webpage**.

Working online

To ensure that Internet Explorer is working online, select the **File** or **Tools** menu (depending on your version of Internet Explorer). If there is a check mark beside Work Offline, clear the check mark by clicking **Work Offline**.

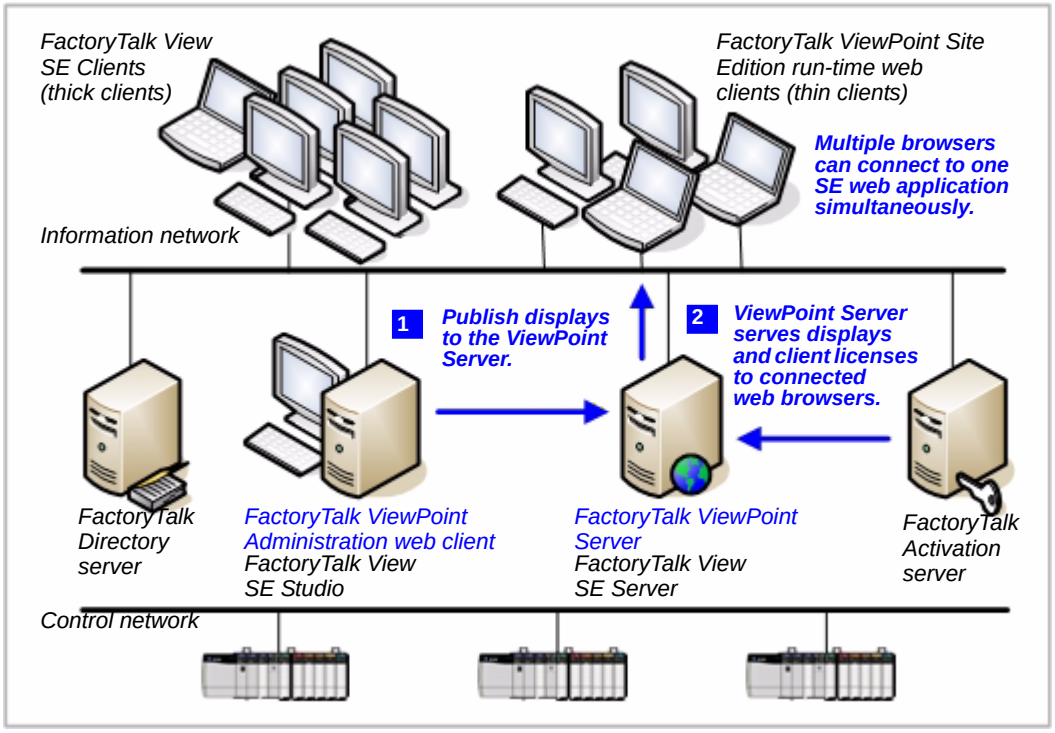
2 Setting up Site Edition (SE) web applications

This chapter describes:

- how FactoryTalk® ViewPoint works in a Site Edition environment.
- how to set up the FactoryTalk ViewPoint Server to provide activation.
- how to create a new Site Edition web application.
- how to connect to an existing Site Edition web application.

About the FactoryTalk ViewPoint Site Edition environment

A FactoryTalk ViewPoint Site Edition application is a set of graphic displays selected from an existing FactoryTalk View SE application, converted for viewing on the web, and published to a FactoryTalk ViewPoint Server (also called the web server).


FactoryTalk View SE Clients (thick clients)
FactoryTalk ViewPoint Site Edition run-time web clients (thin clients)
Multiple browsers can connect to one SE web application simultaneously.
Information network
1
Publish displays to the ViewPoint Server.
2
ViewPoint Server serves displays and client licenses to connected web browsers.
FactoryTalk Directory server
FactoryTalk ViewPoint Administration web client
FactoryTalk View SE Studio
FactoryTalk ViewPoint Server
FactoryTalk View SE Server
FactoryTalk Activation server
Control network

The FactoryTalk ViewPoint Server web application can be installed on any computer participating in a FactoryTalk View SE network application, or on the computer hosting a local application.

In the previous illustration, the FactoryTalk ViewPoint Server in a network application is installed and running on the same computer as the FactoryTalk View SE Server.

A web application will not display data if HMI servers, data servers, or alarm servers in the corresponding FactoryTalk View SE application are unavailable or not running. To ensure that an HMI server is running, in FactoryTalk View Studio, open the server's Properties dialog box and set the startup type to **Load and run startup components when operating system initializes**. For details, click Help.

The role of the FactoryTalk ViewPoint Server

The FactoryTalk ViewPoint Site Edition setup program installs the FactoryTalk ViewPoint Server and FactoryTalk ViewPoint Administration software on the computer.

The FactoryTalk ViewPoint Server hosts the currently published web application and provides ViewPoint client licenses to web browsers that connect to the application.

To set up FactoryTalk ViewPoint activation and security, and to create a web application, you can connect to FactoryTalk ViewPoint Administration from any supported web browser. To learn how, see the next section, “Setting up FactoryTalk ViewPoint Site Edition activation.”

To learn how to install FactoryTalk ViewPoint Site Edition, see “Installing FactoryTalk ViewPoint” on page 11.

Setting up FactoryTalk ViewPoint Site Edition activation

Web browsers connecting to a published web application obtain client access licenses from the FactoryTalk ViewPoint Server.

Each web browser requires a separate client license, unless browsers are connecting to the same web application from the same computer. In that case, up to three browsers (or three tabs, in browsers that support tabs) can share a single license.

When a browser disconnects or, if FactoryTalk ViewPoint security is enabled, when the user logs off from the web application, all licenses that were held by the current user are released for other browsers to use.

To set up the FactoryTalk ViewPoint Server to provide licenses to connecting web browsers, perform these tasks:

- Download the FactoryTalk ViewPoint licenses you purchased to a FactoryTalk Activation server.
- If the activation server and the FactoryTalk ViewPoint Server are on different computers, use FactoryTalk Activation Manager on the FactoryTalk ViewPoint Server to specify the name of the activation server computer.
- Assign FactoryTalk ViewPoint licenses to the FactoryTalk ViewPoint Server.

Downloading licenses to an activation server

To get activations for an activation server:

1. On the activation server computer, click **Start > All Programs > Rockwell Software > FactoryTalk Activation > FactoryTalk Activation Manager**.
2. Click **Get New Activations**.

   Follow the instructions displayed within FactoryTalk Activation Manager to get activations.

Connecting the ViewPoint Server to a remote activation server

1. On the FactoryTalk ViewPoint Server computer, open FactoryTalk Activation Manager, and then click the **Manage Activations** tab.
2. Click **Find Available Activations** in the left pane.
3. Click the blue underlined text **Update Activation Search Path**.
4. Click **Add Server** to add an additional row.
5. Click the browse button in the newly added row.
6. From the **Browse for Server** dialog, navigate to the location of the activation server on your network and select it.
7. Click **Save**.

   Note: If you make a change that affects the local folders in the search path, the software displays the Update Activation Search Path dialog box. Click **Restart Server**.

   In FactoryTalk ViewPoint Administration, the next time the Activation page is opened or refreshed, the number of FactoryTalk ViewPoint licenses that the

specified server can provide is displayed, as shown below in "Assigning licenses to the ViewPoint Server."

For comprehensive information about FactoryTalk Activation services, on the FactoryTalk ViewPoint Server computer, click **Start > All Programs > Rockwell Software > FactoryTalk Activation > FactoryTalk Activation Manager**, and then click **Help**.

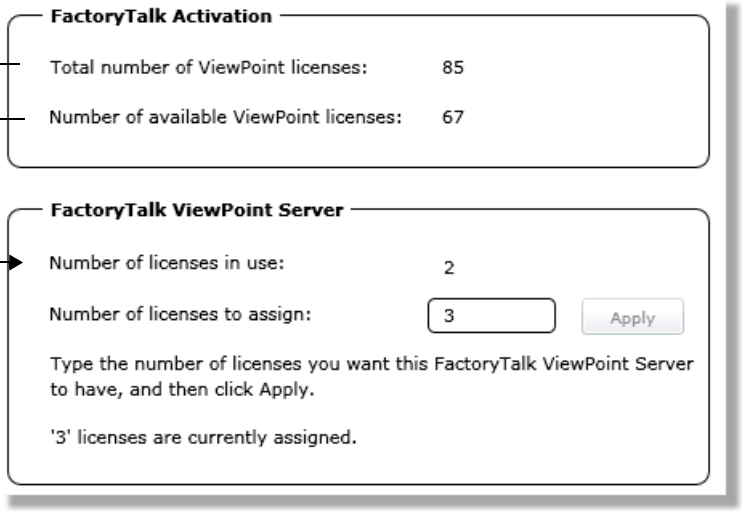
Assigning licenses to the FactoryTalk ViewPoint Server

1. Connect to FactoryTalk ViewPoint Administration. To learn how, see page 24.
2. On the **Activation** page, in the field **Number of licenses to assign** (shown in the next illustration), type the number of licenses needed, and then click **Apply**.

These fields indicate how many ViewPoint licenses the activation server can provide.

This field indicates how many browsers are connected to the ViewPoint server.

To assign more or fewer licenses to the server, type the desired number, and then click Apply.


FactoryTalk Activation
Total number of ViewPoint licenses: 85
Number of available ViewPoint licenses: 67
FactoryTalk ViewPoint Server
Number of licenses in use: 2
Number of licenses to assign: 3
Apply
Type the number of licenses you want this FactoryTalk ViewPoint Server to have, and then click Apply.
'3' licenses are currently assigned.

What happens if the activation server is unavailable?

If the FactoryTalk Activation server is unavailable or unable to provide FactoryTalk ViewPoint licenses, the FactoryTalk ViewPoint Server will provide three temporary licenses to connecting web browsers, for up to seven days.

To resume normal operations, before the seven-day grace period expires, ensure that the activation server can provide the necessary licenses.

After the grace period expires, as soon as you restart the FactoryTalk ViewPoint Server, no web browsers will be able to view the published web application.

Creating a new Site Edition web application

After installing the FactoryTalk ViewPoint software, to create a new Site Edition web application, connect to FactoryTalk ViewPoint Administration, and then perform these tasks:

- Select a FactoryTalk View SE application.
- Select graphic displays from the FactoryTalk View SE application.
- Publish the displays to the FactoryTalk ViewPoint Server.

Only one web browser can connect to FactoryTalk ViewPoint Administration on a given FactoryTalk ViewPoint Server.

Connecting to FactoryTalk ViewPoint Administration

Open a web browser and then enter the address:

http://*ComputerName***/FTVP/Admin**

where *ComputerName* is the name or IP address of the FactoryTalk ViewPoint Server computer.

On the server computer, you can also click **Start > All Programs > Rockwell Software > FactoryTalk ViewPoint**, and then click **FactoryTalk ViewPoint Administration**.

If you receive a message to install Microsoft Silverlight 4, continue with the following steps. Otherwise skip to “Creating a new Site Edition web application” on page 26.

INSTALLING MICROSOFT SILVERLIGHT 4

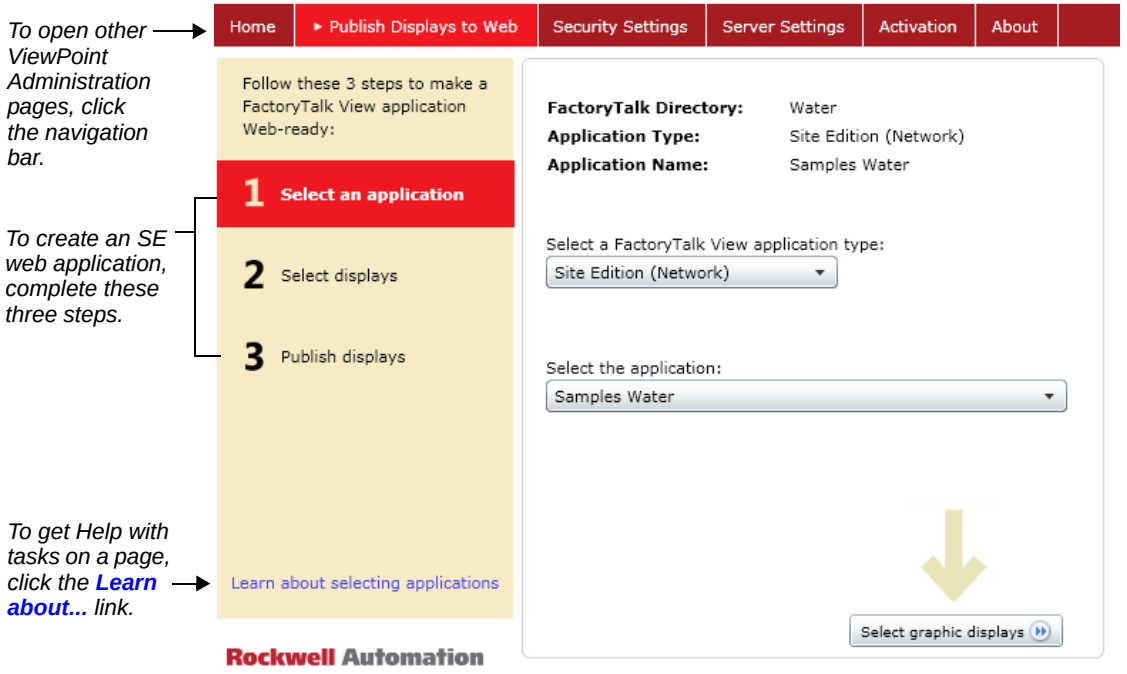
The user installing Microsoft Silverlight 4 must have administrative rights in Windows. If you have problems, contact your System Administrator or try logging on to Windows as a different user.

1. Start FactoryTalk ViewPoint Administration from **Start > All Programs > Rockwell Software > FactoryTalk ViewPoint > FactoryTalk ViewPoint Administration** or from the desktop shortcut.
2. The web browser connecting to FactoryTalk Viewpoint Administration presents a message to install Microsoft Silverlight if it is not already installed. To begin, click the **Click to Install** button.
3. In the **File Download - Security Warning** dialog box, click **Run**.
4. After Silverlight.4.0.exe finishes running, in the **Internet Explorer - Security Warning** dialog box, click **Run**.
5. In the Install Silverlight 4 graphic, click **Install now**.
6. After the software finishes installing, if the Enable Microsoft Update graphic is presented, click **Next**, and then click **Close**. Otherwise, simply click **Close**.

If the FactoryTalk ViewPoint Administration Home page or the web application's initial display does not open, either press F5 to refresh the web browser, or close and then reopen the browser.

Creating a new Site Edition web application

1. In FactoryTalk ViewPoint Administration, on the Home page, click **Publish displays to Web**.


To open other ViewPoint Administration pages, click the navigation bar.
To create an SE web application, complete these three steps.
To get Help with tasks on a page, click the Learn about... link.
Home
Publish Displays to Web
Security Settings
Server Settings
Activation
About
Follow these 3 steps to make a FactoryTalk View application Web-ready:
1 Select an application
2 Select displays
3 Publish displays
Learn about selecting applications
FactoryTalk Directory: Water
Application Type: Site Edition (Network)
Application Name: Samples Water
Select a FactoryTalk View application type:
Site Edition (Network)
Select the application:
Samples Water
Select graphic displays
Rockwell Automation

2. On the Publish Displays to Web page, finish the first step, **1 Select an application** (shown in the illustration). For the application type, choose from the following.

   - **Site Edition (Network Distributed)** to select an application from the FactoryTalk Network Directory that the FactoryTalk ViewPoint Server computer is connected to. The Network Directory could be on the same computer as the FactoryTalk ViewPoint server or on another computer.
   - **Site Edition (Network Station)** to select an application from the FactoryTalk Network Directory that the FactoryTalk ViewPoint Server computer is connected to and that is hosted on the FactoryTalk ViewPoint Server computer.

- **Site Edition (Local)** to select an application from the FactoryTalk Local Directory on the computer running the FactoryTalk ViewPoint Server.

3. To select the graphic displays to publish, click **2 Select displays**.
4. To begin the publishing process, click **3 Publish displays**.

   After publishing is finished, to open the newly published web application, click **Open Web application**.

   The initial display (or displays, if specified in a startup macro) selected for the application should open in the web browser.

You can set up security for FactoryTalk ViewPoint Administration or for a published SE web application. To learn how, see the FactoryTalk ViewPoint Help.

Connecting to an existing Site Edition web application

You can connect to an existing FactoryTalk ViewPoint Site Edition application from any computer running a supported web browser.

All you need is the computer name or IP address of the computer running the FactoryTalk ViewPoint Server for the application.

To learn about optimal settings for web client computers, see “Setting up web client computers”.

A Site Edition web application will not display data if HMI servers, data servers, or alarm servers in the corresponding FactoryTalk View SE application are unavailable or not running. To ensure that an HMI server is running, in FactoryTalk View Studio, open the server’s Properties dialog box and set the startup type to **Load and run startup components when operating system initializes**.
For details, click Help.

To connect to a FactoryTalk ViewPoint Site Edition application:

1. Open a web browser, and then enter this address:

   http://*ComputerName***/FTVP**

where *ComputerName* is the name or IP address of the FactoryTalk ViewPoint Server computer.

The initial display (or displays, if specified in a startup macro) selected for the web application should open.

If you receive a message to install Microsoft Silverlight 4, for instructions, see "Installing Microsoft Silverlight 4".

Support for FactoryTalk View SE commands

FactoryTalk ViewPoint Site Edition supports the Abort, Display, = (Equal), Macro, Ramp, Set and Toggle commands. To open and close displays in a web application, you can use objects set up to issue these commands. You can also include these commands in a macro, and then select the macro to run when the web application starts up.

For more information on support for FactoryTalk View SE features, see the FactoryTalk ViewPoint Help. To learn how to gain access to the Help, see "Learning more about FactoryTalk ViewPoint Site Edition".

Macros still follow the supported FactoryTalk View SE commands. All other commands will be ignored if they are included in a macro or specified as the press or release action for a button or for touch animation. FactoryTalk ViewPoint does not execute StartUp/ ShutDown commands configured in Display Settings. It also does not support runtime security macros or command execution from FactoryTalk Alarms and Events summary objects.

Abort command support includes the following command parameters only:

- [/Me], used to close the display that the Abort command was issued from.
- [*DisplayName*], used to close the specified display.
- [*], used to close all open displays.
- [/D], used with [*] to include docked displays when closing all open displays.

Display command support includes the following command parameters only:

- [/T] and [/P], used to load parameter lists and files with a display.
- [/H] and [/W], used to specify the initial height and width of a display.
- [/X] and [/Y], used to specify the initial position coordinates of a display.

- [/DL], [/DR], [/DT], [/DB], used to dock displays to the left, right, top, or bottom of the web browser window.
- [/Q1], [/Q2], [/Q3], [/Q4], used to set positions. /Q1: Upper right corner, /Q2: Upper left corner, /Q3: Lower left corner, and /Q4: Lower right corner.

Equal (=) command is used to enter an expression from the command line or anywhere else a FactoryTalk View SE command is used.

The syntax for the Equal command is: **[&] <tag_name>=<expression>**

- **[&]** forces the command to be evaluated asynchronously, which can dramatically improve the performance of tag writes.
- **<tag_name>** is a relative or absolute reference to the tag that stores the result of the expression. The tag name can include an area name.
- **<expression>** is a value, string, tag name, or a more complex expression.

Ramp command increases or decreases a tag value by a specified value or by another tag's value.

The syntax for the Ramp command is **Ramp [/V] <tag_name> <value|tag>**

- **[/V]** performs a read immediately after the write to verify that the value was actually altered in the programmable controller or OPC server. This parameter is useful if the network is in poor condition or susceptible to noise interference. If the verification fails, the error message is sent to the Factory Diagnostics system.
- **<tag_name>** is a relative or absolute reference to the tag that will be increased or decreased in value.
- **<value|tag>** is an amount to add to or subtract from the current value of the specified tag, as follows:
  - A numeric value with a sign indicating add (+) or subtract (-).
  - The value to add or subtract, as a percentage of the total min/max range, with a sign indicating add (+) or subtract (-). The formula is:
    new = old +/- (percentage/100 * (max - min)) plus (+) or minus (-) a tag
  - If Ramp calculates a value that is outside of a tag's min/max range, it will write the highest or lowest allowable value to programmable controller or OPC server.

Set command writes a value to a tag.

The syntax for the Set command is **[&] Set [/V] <tag_name> <value|tag>**

- **[&]** forces the command to be evaluated asynchronously, which can dramatically improve the performance of tag writes.
- **[/V]** performs read-back verify on the write.
  - [/V] provides an extra level of security by performing a read immediately after the write to verify that the value was actually altered in the programmable controller or OPC server.
  - This option is useful if the communications network is in poor condition, or susceptible to noise interference.
  - If the verification fails, the error message is sent to the Factory Diagnostics system
- **<tag_name>** is a relative or absolute reference to the tag whose value will be set.
- **<value|tag>** is a value and tag to set.

Toggle command reads the tag's value and writes back a 0 or 1. If the value is 0, Toggle changes it to 1; if the value is 1, Toggle changes it to 0.

The syntax for the Toggle command is **Toggle [/V] <tag_name>**

- **[/V]** performs a read immediately after the write to verify that the value was altered in the programmable controller or server.
  - This parameter is useful if the network is in poor condition or susceptible to noise interference.
  - If the verification fails, the error message is sent to the Factory Diagnostics system.
- **<tag_name>** is a relative or absolute reference to an analog or digital HMI tag.

FactoryTalk ViewPoint Site Edition text fonts

FactoryTalk ViewPoint Site Edition uses Microsoft® Silverlight™ 4 technology to convert FactoryTalk View SE graphic displays for the web.

Microsoft Silverlight 4 supports any font on your client computer for any text element. Fonts not available on your client computer will be replaced with Arial in the web application. Replaced fonts may cause unexpected text wrapping in objects in the published web application.

Learning more about FactoryTalk ViewPoint Site Edition

For additional information about FactoryTalk ViewPoint Site Edition, assistance with a specific task, or troubleshooting tips, open the FactoryTalk ViewPoint Help.

You can gain access to the Help from FactoryTalk ViewPoint Administration pages and from the run-time web client.

Getting help related to an Administration task

In FactoryTalk ViewPoint Administration, click the **Learn more** button.

Opening the Help while viewing an SE web application

On the FactoryTalk ViewPoint banner at the top of the web browser window, click **Help**.

Browsing the Help contents

To browse the Help Contents, use any of these methods:

- On the Contents page, click books and topics listed in the navigation pane.

- To browse the topics in an open book, click the back and forward arrows on the navigation bar (shown on the left).

- To go back to the previous topic, click the web browser's **Back** button.
- Click the breadcrumb links displayed above the currently open Help topic.
- Enter keywords in the **Search** field.

The Search feature in the Help uses the AND operator by default. This means that if you enter two keywords, for example **Apple** and **Banana**, the search will return topics that contain *both* words, not one or the other.

- Search for keywords and find related topics in the **Index**.

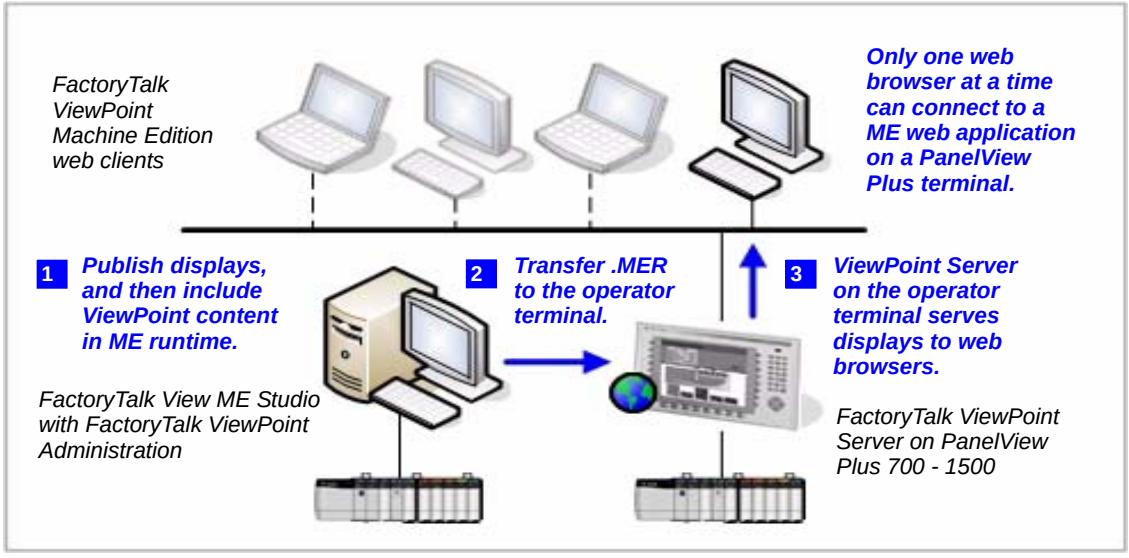
3 Setting up Machine Edition (ME) web applications

This chapter describes:

- how FactoryTalk® ViewPoint works in a Machine Edition environment.
- how to create a new Machine Edition web application.
- how to connect to an existing Machine Edition web application.

About the FactoryTalk ViewPoint Machine Edition environment

A FactoryTalk ViewPoint Machine Edition web application is a set of graphic displays selected from an existing FactoryTalk View ME application, converted for viewing on the web, and published to a supported PanelView Plus operator terminals.


FactoryTalk ViewPoint Machine Edition web clients
Only one web browser at a time can connect to a ME web application on a PanelView Plus terminal.
1
Publish displays, and then include ViewPoint content in ME runtime.
2
Transfer .MER to the operator terminal.
3
ViewPoint Server on the operator terminal serves displays to web browsers.
FactoryTalk View ME Studio with FactoryTalk ViewPoint Administration
FactoryTalk ViewPoint Server on PanelView Plus 700 - 1500

As shown in the previous illustration, the FactoryTalk ViewPoint Server software for a Machine Edition web application is installed on a PanelView™ Plus or PanelView Plus 6 operator terminal. New operator terminals contain the firmware with FactoryTalk ViewPoint Machine Edition. Operator terminals that contain previously installed software can be updated by upgrading the firmware on the terminal. For more information on upgrading PanelView Plus firmware, see the *PanelView Plus Terminals User Manual*, Chapter 8, "Upgrade Firmware."

The FactoryTalk ViewPoint Administration software, used to convert displays and set up security, is installed as part of FactoryTalk ViewPoint Machine Edition on the FactoryTalk View Studio computer.

To learn how to convert displays and then include them in the Machine Edition runtime web application that will be downloaded to the operator terminal, see the next section, "Creating a new Machine Edition web application."

To learn how to set up security, click Help.

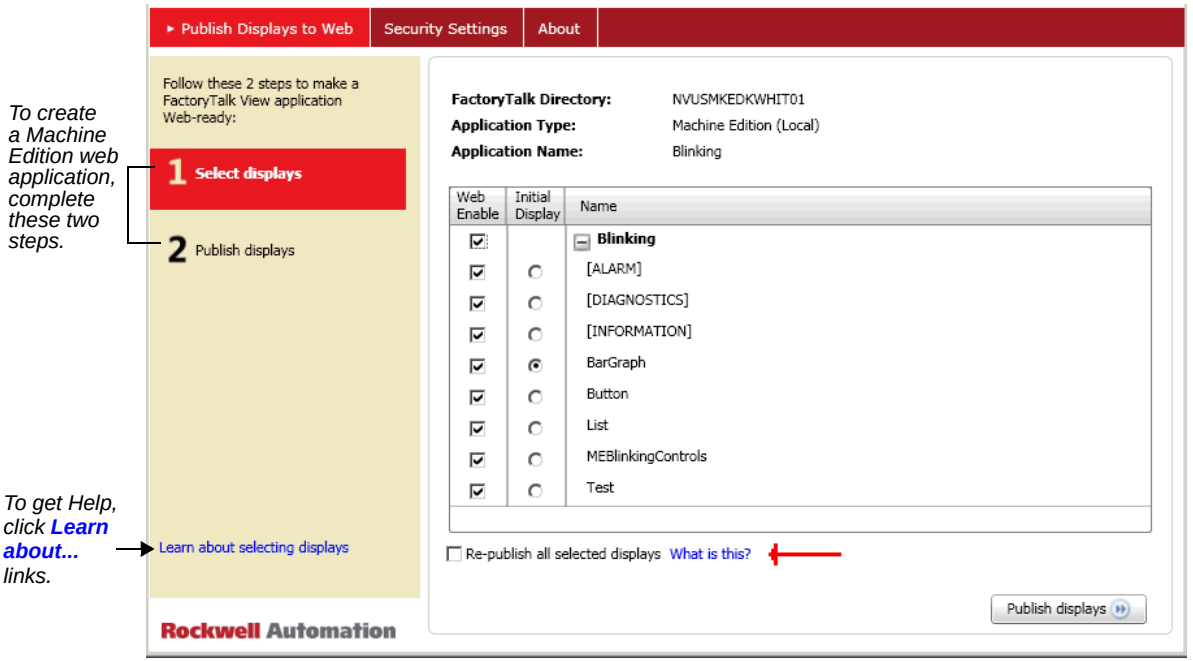
To learn how to install FactoryTalk ViewPoint Machine Edition, see "Installing FactoryTalk ViewPoint".

Creating a new Machine Edition web application

To create a new Machine Edition web application:

1. In FactoryTalk View Studio, open the FactoryTalk View ME application that contains the displays you want to convert for the web.
2. Click **Application > ViewPoint Administration** to open FactoryTalk ViewPoint Administration.

3. In FactoryTalk ViewPoint Administration, click **Publish Displays to Web**, and then select and publish the displays.



4. Create the Machine Edition runtime application, and include FactoryTalk ViewPoint content.

   a. In FactoryTalk View Studio click **Application > Create Runtime Application** to create a run-time file (.MER). Select the **Include ViewPoint Content** check box located below the **Type** list. The check box is selected by default. The run-time file will provide the FactoryTalk View ME application and the published displays to the PanelView Plus or PanelView Plus Pro operator terminal.

   b. In **Save as type**, select the runtime version compatible with the firmware version of the targeted operator terminal. For a chart of compatible versions see “Compatibility matrix for FactoryTalk ViewPoint” on page 9.

   c. Click **Save**.

   Note: FactoryTalk ViewPoint ME Administration can generate FactoryTalk View-Point content for previous versions of FactoryTalk ViewPoint ME. During the run-

time application (.MER file) creation process, the published FactoryTalk ViewPoint content is converted to the version selected and included with the MER.

In addition, the FactoryTalk ViewPoint server (which is a part of the operator terminal firmware) is also able to process and serve earlier versions of FactoryTalk ViewPoint content to the client (browser). This scenario could occur when a MER file created with FactoryTalk View ME 5.10 contains FactoryTalk ViewPoint 1.2 content and is loaded and run on a PanelView Plus 6 operator terminal.

d. In the Create Runtime Application Wizard - Select Languages dialog box, select all the languages to include in the runtime application, select the initial language to use, and then click **Finish**. The runtime file is created, which may take some time.

The language that the FactoryTalk ViewPoint Machine Edition content is published in is determined by the application's Default language. This is completely separate from the 'initial' (startup) language for the operator terminal application, and independent from the languages included in the operator terminal application contents.

Language switching is not supported in FactoryTalk ViewPoint Machine Edition. To change the language of the application later, repeat these steps to select a different initial language and then publish the runtime file to the PanelView Plus or PanelView Plus Pro operator terminal again.

5. Download the Machine Edition run-time application (.MER) to the PanelView Plus operator terminal that will host the web application.

   a. In FactoryTalk View Studio, click the **File Transfer Utility** button on the toolbar.

   b. In the **Source file** field, use the browse button (...) to select the run-time file that was just created.

   c. In **Select destination terminal**, browse for the PanelView Plus terminal and then click **Download**.

   d. Once the download completes, click **OK** and close the Transfer Utility window.

6. On your PanelView Plus or PanelView Plus Pro operator terminal, in the FactoryTalk View ME Station configuration screen, click **Load Application** and then select the run-time (.MER) file you downloaded. Click **Load**.

7. Click **Run Application** to start the project. For more information on loading and running an application, see the PanelView Plus Terminal's User Manual. The FactoryTalk ViewPoint client About menu contains information about the application version of ViewPoint content within a .MER file.

To learn more about creating and securing access to a Machine Edition web application, see the FactoryTalk ViewPoint Help.

Connecting to an existing Machine Edition web application

You can connect to an existing FactoryTalk ViewPoint Machine Edition application from any computer running a supported web browser.

All you need is the computer name or IP address of the PanelView Plus or PanelView Plus Pro operator terminal running the FactoryTalk ViewPoint Server for the application.

To learn about optimal settings for web client computers, see "Setting up web client computers".

To connect to a FactoryTalk ViewPoint Machine Edition application:

1. Open a web browser, and then enter this address:

   http://*TerminalName***/FTVP**

   where *TerminalName* is the IP address of the PanelView Plus operator terminal.

2. The initial display selected for the web application should open.

Only one web browser can connect to the FactoryTalk ViewPoint Server on a PanelView Plus or PanelView Plus Pro operator terminal at a time.

3. If you receive a prompt to install Microsoft Silverlight 4, and your client computer is connected to the Internet, perform the following steps.

   If your client computer is not connected to the Internet, you receive a message with instructions on how to get and install Silverlight on the client.

The user installing Microsoft Silverlight 4 must have administrative rights in Windows. If you have problems, contact your System Administrator or try logging on to Windows as a different user.

a. In the web browser, click **Click to Install**.

b. In the File Download - Security Warning dialog box, click **Run**.

c. After the Silverlight.4.0.exe download finishes, in the Internet Explorer - Security Warning dialog box, click **Run**.

d. In the Install Silverlight 4 graphic, click **Install now**.

e. After the software finishes installing, if the Enable Microsoft Update graphic is presented, click **Next**, and then click **Close**. Otherwise, simply click **Close**.

FactoryTalk ViewPoint Machine Edition text fonts

FactoryTalk ViewPoint Machine Edition uses Microsoft® Silverlight™ 4 technology to convert FactoryTalk View graphic displays for the web.

Silverlight 4 supports any font on your client computer for any text element. Fonts not available on your client computer will be replaced with Arial in the web application. Replaced fonts may cause unexpected text wrapping in objects in the published web application.

Learning more about FactoryTalk ViewPoint Machine Edition

For additional information about FactoryTalk ViewPoint Machine Edition, assistance with a specific task, or troubleshooting tips, open the FactoryTalk ViewPoint Help.

You can access Help from the FactoryTalk ViewPoint Administration tool that is installed on the FactoryTalk View Studio computer.

Getting help related to an Administration task

In FactoryTalk ViewPoint Administration, click the **Learn about** link at the bottom left of the page.

Browsing the Help contents

To browse the Help Contents, use any of these methods:

- On the Contents page, click books and topics listed in the navigation pane.
- To browse the topics in an open book, click the back and forward arrows on the navigation bar (shown on the left).

- To go back to the previous topic, click the web browser's **Back** button.
- Click the breadcrumb links displayed above the currently open Help topic.
- Enter keywords in the **Search** field.

The Search feature in the Help uses the AND operator by default. This means that if you enter two keywords, for example **Apple** and **Banana**, the search will return topics that contain *both* words, not one or the other.

- Search for keywords and find related topics in the **Index**.

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